

AMENDMENTS TO THE CLAIMS

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application.

1. (Canceled)
2. (Currently Amended) A system according to claim ~~[[1]]~~ 30, wherein at least one of the indicia includes a reflective surface adapted to be sensed by an infrared sensor device or a transponder that emits energy when interrogated.

Claims 3- 5 (Canceled)

6. (Currently Amended) A device according to claim ~~[[5]]~~ 21, wherein at least one of the indicia includes a reflective surface adapted to be sensed by an infrared sensor device or a transponder that emits energy when interrogated.

Claims 7-16 (Cancelled)

17. (Currently Amended) The system of claim ~~[[1]]~~ 30, wherein an adjustable securing mechanism is interposed between the second dovetail mating portion and the indicia, ~~registering and securing mechanism and the item~~, the adjustable securing mechanism including a structure which allows the ~~registering and securing mechanism~~ indicia to be selectively repositioned relative to the ~~item~~ body part involved along three rotational degrees of freedom.

18. (Currently Amended) The device of claim ~~[[5]]~~ 21, wherein an adjustable securing mechanism is interposed between the second dovetail mating

portion and the indicia, registering and securing mechanism and the item, the
adjustable securing mechanism including a structure which allows the registering and
~~securing mechanism~~ indicia to be selectively repositioned relative to the ~~item~~ body
part involved along three rotational degrees of freedom.

19. (Currently Amended) The method of claim ~~[[9]]~~ 39, wherein further
comprising providing an adjustable securing mechanism ~~is~~ interposed between the
second dovetail mating portion and the indicia, registering and securing mechanism
~~and the item,~~ the adjustable securing mechanism including a structure which allows
the ~~registering and securing mechanism~~ indicia to be selectively repositioned relative
to the ~~item~~ body part involved along three rotational degrees of freedom.

20. (New) A device for use in computer assisted surgery to attach a plurality of
indicia capable of being sensed by a computer functionality to a body part involved in
surgery, which device comprises:

(a) a base, comprising;

(i) one or more bone attachment devices configured to secure the base
to the body part; and

(ii) a first dovetail mating portion; and

(b) a reference frame for holding the plurality of indicia, the reference frame
having a second dovetail mating portion;

wherein the first and second dovetail mating portions are configured to mate in a single orientation and position such that the indicia may be secured to the body part in a selectively re-attachable manner.

21. (New) The device of claim 20, further comprising an additional connection aid component, the additional connection aid component having a protrusion connected to either the first or second dovetail mating portions and further having a receiving portion connected to the other of the first or second dovetail mating portions, the receiving portion configured to receive the protrusion when the first dovetail mating portion is in the single orientation and position with respect to the second dovetail mating portion.

22. (New) The device of claim 21, wherein the protrusion is a set screw and the receiving portion is an opening for receiving the set screw.

23. (New) The device of claim 21, wherein the protrusion is a biased member and the receiving portion is a slot configured to receive the biased member.

24. (New) The device of claim 23, further comprising an additional magnetic connection aid.

25. (New) The device of claim 20, wherein the first dovetail mating portion comprises a dovetail pin and the second dovetail mating portion comprises a dovetail tail.

26. (New) The device of claim 20, wherein the first dovetail mating portion comprises a dovetail tail and the second dovetail mating portion comprises a dovetail pin.

27. (New) The device of claim 21, wherein the reference frame and second dovetail mating portion are molded as a single-piece unitary reference frame.

28. (New) The device of claim 21, wherein the bone attachment devices comprise one or more openings in the base for receiving one or more bone screws.

29. (New) A system for performing computer assisted surgery on a body part involved in surgery, the system comprising:

- (a) a plurality of indicia;
- (b) a computer functionality adapted to sense the position of the plurality of indicia;
- (c) a base, comprising:
 - (i) one or more bone attachment devices configured to secure the base to the body part; and
 - (ii) a first dovetail mating portion; and
- (d) a reference frame for holding the plurality of indicia in a reference array, the reference frame having a second dovetail mating portion configured to mate with the first dovetail mating portion of the base;

wherein the first and second dovetail mating portions are configured to mate in a single orientation and position such that the indicia may be secured to the body part in a selectively re-attachable manner.

30. (New) The system of claim 29, further comprising an additional connection aid component, the additional connection aid component having a protrusion connected to either the first or second dovetail mating portions and a further having a receiving portion connected to the other of the first or second dovetail mating portions, the receiving portion configured to receive the protrusion when the first dovetail mating portion is in the single orientation and position with respect to the second dovetail mating portion.

31. (New) The system of claim 30, wherein the protrusion is a set screw and the receiving portion is an opening for receiving the set screw.

32. (New) The system of claim 30, wherein the protrusion is a biased member and the receiving portion is a slot configured to receive the biased member.

33. (New) The system of claim 30, further comprising an additional magnetic connection aid.

34. (New) The system of claim 29, wherein the first dovetail mating portion comprises a dovetail pin and the second dovetail mating portion comprises a dovetail tail.

35. (New) The system of claim 29, wherein the first dovetail mating portion comprises a dovetail tail and the second dovetail mating portion comprises a dovetail pin.

36. (New) The system of claim 30, wherein the reference frame and second dovetail mating portion are molded as a single-piece unitary reference frame.

37. (New) The system of claim 30, wherein the bone attachment devices comprise one or more openings in the base for receiving one or more bone screws.

38. (New) A method of performing computer assisted surgery on a body part involved in surgery, the method comprising:

(a) providing a plurality of indicia;

(b) providing a computer functionality adapted to sense the position of the plurality of indicia;

(c) providing a base, the provided base having one or more bone attachment bone attachment devices configured to secure the base to the body part involved in surgery, and the provided base further having a first dovetail mating portion;

(d) providing a reference frame for holding the plurality of indicia in a reference array, the provided reference frame having a second dovetail mating portion configured to mate with the first dovetail mating portion of the base in a single orientation and position;

(e) mating the first dovetail mating portion with the second dovetail mating portion to secure the indicia to the body part involved in surgery in a selectively re-attachable manner,

(f) performing at least part of the computer assisted surgery based at least in part on information obtained from the computer functionality based on sensing position of the plurality of indicia.

39. (New) The method of claim 38, wherein providing the first and second dovetail mating portions further comprises providing an additional connection aid component, the additional connection aid component having a protrusion connected to either the first or second dovetail mating portions and a further having a receiving portion connected to the other of the first or second dovetail mating portions, the receiving portion configured to receive the protrusion when the first dovetail mating portion is in a desired position with respect to the second dovetail mating portion.

40. (New) The method of claim 39, wherein providing the additional connection aid component comprises providing a set screw and an opening for receiving the set screw.

41. (New) The method of claim 39, wherein providing the additional connection aid component comprises providing a biased member and a slot configured to receive the biased member.

42. (New) The method of claim 39, further comprising providing an additional magnetic connection aid.

43. (New) The method of claim 38, wherein providing the first and second dovetail mating portions comprises providing a first dovetail mating portion having a dovetail pin and a second dovetail mating portion having a dovetail tail.
44. (New) The method of claim 38, wherein providing the first and second dovetail mating portions comprises providing a first dovetail mating portion having a dovetail tail and a second dovetail mating portion having a dovetail pin.
45. (New) The method of claim 39, wherein providing the reference frame and second dovetail mating portion comprises providing the reference frame and the second dovetail mating portion as a single, unitary piece.
46. (New) The method of claim 39, wherein providing the bone attachment devices comprises providing one or more openings in the base for receiving one or more bone screws and tightening the bone screws to secure the first dovetail mating portion in the single orientation and position with respect to the second dovetail mating portion.